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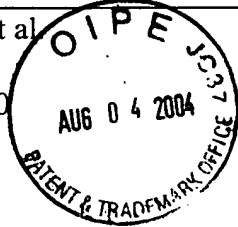
Applicant(s): Pogue et al

Serial No.: 10/660,860

Filed: 9/12/2003

Title: Enhancement of Virus Induced Gene
Silencing (VIGS) through Viral-based
Expression of Inverted-Repeats

Attorney Docket No.: LSBC-POGUE-A1A



Group Art Unit: 1632

Examiner: PRIEBE, Scott David

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:
- ☐ Statement under 37 CFR 1.97(e), or
 - ☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with a:
- ☐ Statement under 37 CFR 1.97(e), and
 - ☐ a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

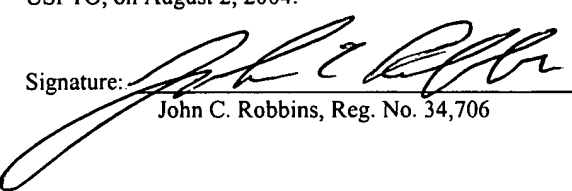
☒ Applicant(s) submit herewith Form PTO 1449-Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

The relevance of the attached references is that this is the closest art of which Applicant is aware. Applicant submits that the above references taken alone or in combination neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to this application is respectfully requested.


It is requested that the information disclosed herein be made of record in this application.

Respectfully submitted,

I hereby certify that this Correspondence is being deposited with the United States Postal service with sufficient postage for first class mail in an envelope address to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or the correspondence is being facsimile transmitted to the USPTO, on August 2, 2004.

Signature: 

John C. Robbins, Reg. No. 34,706


John C. Robbins
Agent for Applicant(s)
Reg. No. 34,706

Date: 

Telephone No.: (707) 446-5501

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1

of

3

Complete if Known

Application Number	10/660,860
Filing Date	9/12/2003
First Named Inventor	Pogue et al.
Art Unit	1632
Examiner Name	PRIEBE, Scott David
Attorney Docket Number	LSBC-POGUE-A1A

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-			
		US-			
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		BOUTLA, et al., "Induction of RNA interference in <i>Caenorhabditis elegans</i> by RNAs derived from plants exhibiting post-transcriptional gene silencing", <i>Nucleic Acids Research</i> (2002) 30:1688-1694	
		CHUANG and MEYEROWITZ, "Specific and heritable genetic interference by double-stranded RNA in <i>Arabidopsis thaliana</i> ", <i>Proc. Natl. Acad. Sci. USA</i> (2000) 97:4985-4990	
		DALMAY, et al., "An RNA-dependant RNA polymerase gene in <i>Arabidopsis</i> is required for post-transcriptional gene silencing mediated by a transgene but not by a virus", <i>Cell</i> (2000) 101:543-553	
		DE BUCK, al., "Transgene silencing of invertedly repeated transgenes is released upon deletion of one of the transgenes involved", <i>Plant Mol. Biol.</i> (2001) 46:433-445	
		FAGARD and VAUCHERET, "(Trans)gene silencing in plants: How many mechanisms?", <i>Ann. Rev. Plant Physiol. Plant Mol. Biol.</i> (2000) 51:167-194	

Examiner Signature	Date Considered
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			Application Number	10/660,860	
			Filing Date	9/12/2003	
			First Named Inventor	Pogue et al.	
			Art Unit	1632	
			Examiner Name	PRIEBE, Scott David	
Sheet	2	of	3	Attorney Docket Number	LSBC-POGUE-A1A

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		HAMILTON, et al., "A transgene with repeated DNA causes high frequency, post-transcriptional suppression of ACC-oxidase gene expression in tomato", <i>Plant J.</i> (1998) 15:737-746	
		HOLZBERG, et al., "Barley stripe mosaic virus-induced gene silencing in a monocot plant", <i>Plant J.</i> (2002) 30:315-327	
		JOHANSEN and CARRINGTON, "Silencing on the spot. Induction and suppression of RNA silencing in the Agrobacterium-mediated transient expression system", <i>Plant Physiol.</i> (2001) 126:930-938	
		KUMAGAI, et al., "Cytoplasmic inhibition of carotenoid biosynthesis with virus-derived RNA", <i>Proc. Natl. Acad. Sci. USA</i> (1995) 92:1679-1683	
		LEVIN, et al., "Methods of double-stranded RNA-mediated gene inactivation in Arabidopsis and their use to define an essential gene in methionine biosynthesis", <i>Plant Mol. Biol.</i> (2000) 44:759-775	
		MUSKENS, et al., "Role of inverted DNA repeats in transcriptional and post-transcriptional gene silencing", <i>Plant Mol. Biol.</i> (2000) 43:243-260	
		NAGY and SIMON, "New insights into the mechanisms of RNA recombination", <i>Virology</i> (1997) 235:1-9	
		RATCLIFF, et al., "Tobacco rattle virus as a vector for analysis gene function by silencing", <i>Plant J.</i> (2001) 25:237-245	
		RUIZ, et al., "Initiation and maintenance of virus-induced gene silencing", <i>Plant Cell</i> (1998) 10:937-946	
		SCHWEIZER, et al., "Double-stranded RNA interferes with gene function at the single-cell level in cereals", <i>Plant J.</i> (2000) 24:895-903	
		SMITH, et al., "Total silencing by intron-spliced hairpin RNAs", <i>Nature</i> (2000) 407:319-320	
		TENLLADO and DIAZ-RUIZ, "Double-stranded RNA-mediated interference with plant virus infection", <i>J. of Virology</i> (2001) 75:12288-12297	

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